

## Tingey, Christopher

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**From:** Bierschenk, Arnold  
**Sent:** Wednesday, February 14, 2018 2:42 PM  
**To:** Tingey, Christopher  
**Subject:** FW: Review of NBU 6-W42 and NBU 5-W41  
**Attachments:** Message from "RNP56C5A5"

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**From:** Erwin Pino [mailto:erwin.pino@chaparralenergy.com]  
**Sent:** Thursday, July 18, 2013 1:49 PM  
**To:** Todd, Robert <Todd.Robert@epa.gov>  
**Cc:** Bierschenk, Arnold <bierschenk.arnold@epa.gov>; Harvill, Jana <Harvill.Jana@epa.gov>  
**Subject:** RE: Review of NBU 6-W42 and NBU 5-W41

Robert,

**NBU #6-W23.** In 2006, ran 3-1/2" csg to 2903' & cemented w/50 sks reg cement. Ran 1" tbg to 320' between 4-1/2" & 8-5/8" csgs & pumped 105 sks reg cement from 320' to surface. The USDW was protected. For details see the attached form 139.

**NBU #5-W22.** P&A in 1990. Squeeze off formation @ 2942' w/50 sks class H cement. Filled hole with mud. Cut off 4-1/2" csg @ 238' & POOH w/same. RIH w/tbg & pumped 125 sks reg cement from 291' to surface. The USDW was protected.

**NBU #5-W23.** P&A in 1989. Filled hole with mud. Cut off 4-1/2" csg @ 220' & POOH w/same. RIH w/tbg & pumped 110 sks reg cement from 280' to surface. The USDW was protected.

The following wells have been re-plugged by the EPA standards (see attachment), so these wells were brought into compliance.

- **NBU #10-5**
- **NBU #10-6**
- **NBU #10-8**
- **NBU #16-14**
- NBU #4-3. In progress

Furthermore, the monitor wells on the North side of Phase I are being installed and they will be completed in two weeks. I will send to you the monitor well completion reports, logging, and initial analysis as soon as they are completed.

Let me know if you have any questions or comments.

Thanks,

## Erwin Pino

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**From:** Todd, Robert [<mailto:Todd.Robert@epa.gov>]

**Sent:** Tuesday, July 16, 2013 2:26 PM

**To:** Erwin Pino

**Subject:** Review of NBU 6-W42 and NBU 5-W41

Erwin,

We've reviewed your request for injection for NBUs 6-W42 and 5-W41.

We need clarification and further documentation for the following wells

6-w23, This summary for this active injector shows to the operator had 1" tubing run to 320' between the 4 ½ and 8 5/8 tubing with 105 sx cement pumped, however the documentation show the top of cement was tagged at 1775' below surface. The outer casing, the 8 5/8 shows cement from 120' to surface. Please provide documentation of the cementing procedures and records so we can determine adequacy for this well.

5-W22, The summary for this well, P&Ad in 1990, isn't clear that the casing was cemented 50' below the USDW or that the hole was filled with cement to surface after the 4 ½ casing was pulled.

5-W23, The summary for this well, P&Ad in 1989, isn't clear that the casing was cemented 50' below the USDW or that the hole was filled with cement to surface after the 4 ½ casing was pulled, such that the USDW is protected from 50" below the USDW.

Thanks, Robert

*Robert M. Todd, P.E.*

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